

*Examiner's Gr*

AN 1982-01551E [01] WPIDS  
TI Mechanical and heat treatment of dies and races - with additional  
induction heating to controlled depth before deformation.  
DC M24  
IN ALIMOV, V I; SHAPOVALOV, S I  
PA (DONE) DON POLY  
CYC 1  
PI SU 817079 B 19810330 (198201)\* 3p <--  
PRAI SU 1979-2732378 19790305  
AB SU 817079 B UPAB: 19930915  
The working life of dies, ball races, etc. subject to abrasive wear and  
heavy loadings is increased by heating to austenitisation temp., holding,  
additional induction heating above austenitisation temp., plastic  
deformation of the working surface, quenching and tempering. The  
supplementary induction heating extends to the volume of metal a distance  
of 2-15 mm. from the deformed working surface.